IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Confirmation No.: 3335

TICE et al.

Art Unit: 1633

Appl. No.: 10/614,116

Examiner: Popa, Ileana

Filed: July 3, 2003

Atty. Docket: 2584.0020001/RWE/RAS

For: Ketone Ligands for Modulating the Expression of Exogenous Genes Via an Ecdysone Receptor Complex

Declaration of Robert E. Hormann Under 37 C.F.R. § 1.132

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

I, Robert E. Hormann, declare and state as follows:

- I received a B.A. degree in Biochemistry from Dartmouth College and a 1. Ph.D. in Chemistry from the University of Chicago. My training continued in bioorganic chemistry at the Swiss Federal Institute of Technology. A copy of my curriculum vitae is attached as Exhibit 1.
- I am currently employed at Intrexon Corporation (the assignee of the 2. above-captioned application), where I hold the position of Director of Chemistry. My work includes researching and developing ecdysone receptor ligands for use in gene switch activation systems.
- I am co-inventor of the subject matter of U.S. Application No. 10/614,116 ("the present application"), filed July 3, 2003, which is referenced above.
- I have reviewed and am familiar with the Office Action dated November 14, 2006 ("the Office Action") and the Advisory Action dated March 26, 2007 ("the Advisory Action"), issued by the U.S. Patent and Trademark Office in the present application. I have reviewed and am familiar with Martinez et al., (Mol. Gen. Genet.

261:546 (1999)), Dhadialla et al. (Annu. Rev. Entomol. 43:545 (1998)), Saez et al. (Proc. Natl. Acad. Sci. USA 97:14512 (2000)), Guan et al. (J. Combinatorial Chem. 2:297 (2000)), and Michelotti et al. (U.S. Patent No. 5,304,572), cited by the Examiner.

- 5. In the Office Action, the Examiner asserts one of ordinary skill in the art would have expected that the compound DTBHIB taught in Dhadialla et al. was capable of activating a gene switch because it has a structure similar to diacylhydrazine compounds taught in Martinez et al., Saez et al. and Dhadialla et al., some of which have been shown to function as gene switch activators, and that it would have been obvious to modify the structure of DTBHIB to produce other compounds that act as gene switch activators. The Examiner further alleges that the compounds disclosed in Michelotti et al. would reasonably be expected to function as gene switch activators because they are structurally similar to DTBHIB.
- 6. It is my opinion, based on my experience with ecdysone receptor ligands and the experimental results described below, that one of ordinary skill in the art would not have reasonably expected that DTBHIB and the compounds of Michelotti et al. would function as gene switch activators.
- diacylhydrazine compounds for the ability to (a) bind to the ecdysone receptor in an intact organism and induce the natural ecdysone-responsive pathways (as evidenced by the lethal dose required to kill an insect through ecdysone receptor-mediated pathways), and (b) function as a gene switch activator in an ecdysone receptor-based system (as evidenced by induction of gene expression in a cell carrying a gene switch construct). Exhibit 2 (southern armyworm (SAW)) and Exhibit 3 (tobacco budworm (TBW)) show a plot of insect toxicity (Y-axis) against gene switch activity (X-axis). As can be seen in both plots, there is little correlation between insect toxicity (with implicit ecdysone receptor binding activity) and gene switch activity. These results strongly suggest that a compound that is able to bind the ecdysone receptor is not necessarily able to function as a gene switch activator. Likewise, some compounds that are excellent gene switch activators are only weak insecticides. Thus, the ability of a compound to bind to the

ecdysone receptor, such as is taught in Dhadialla et al. for DTBHIB, cannot lead one of ordinary skill in the art to expect that the compound functions as a gene switch activator as there is not enough correlation between the two activities to be predictable.

- 8. Exhibit 4 attached hereto describes experimental results comparing the gene switch activation potency of diacylhydrazine compounds and the same compounds missing the right-hand carbonyl group as measured by the fold induction of gene expression. Gene switch activity was tested in two different assays, 13B3 (Chinese hamster ovary cells) and Z3 (293 human embryonic kidney cells) and at two different doses, 0.33 and 33 μM. Additionally, an EC₅₀ was determined for the compounds RG-106328 and RG-100397/RG-102500. The data indicate that many of the diacylhydrazine compounds have strong gene induction activity while the corresponding compounds without the carbonyl group have essentially no gene induction activity. These results indicate that the right-hand carbonyl group is essential for gene switch activity. Importantly, the compound DTBHIB does not have a carbonyl group that corresponds to the right-hand carbonyl group of the diacylhydrazine compounds. One of ordinary skill in the art would therefore consider it likely that DTBHIB does not function as a gene switch activator.
- 9. Exhibit 5 attached hereto describes experimental results for gene switch activity assays of three compounds that fall within the scope of compounds described by Michelotti *et al.* (see compounds RG-108841, RG-108858, RG-109043) as well as numerous other compounds that have a similar structure in terms of a haloalkyl group at one end and an aryl group at the other end. The compounds depicted in Exhibit 5 were assayed at levels of 0.33 and 33 μM in both 13B3 and Z3 cells. All of the tested compounds were essentially inactive in the gene switch assay. Thus, a variety of compounds encompassed by the structures taught by Michelotti *et al.* as well as compounds that are structurally similar to the compounds of Michelotti *et al.* do not have gene switch activity. These results support the position that modification of the structure of DTBHIB would not be expected to result in compounds having gene switch activity.

are true and the above statements based on information and belief obtained from the references and documents discussed are believed to be true. Additionally, I declare that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Title 18 United States Code Section 1001, and that willful false statements may jeopardize the validity of this application or any patent issuing thereon.

Respectfully submitted,

Robert E. Hormann

Date: 5-14-07

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EXHIBIT 1

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2. Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITLE
Hormann, Robert E.	Director of Chemistry

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)							
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY				
Dartmouth College, Hanover. NH	B.A.	1977-81	Biochemistry				
The University of Chicago	Ph.D.	1981-1987	Chemistry				
Swiss Federal Inst. of Technology (E.T.H.), Zürich,	Postdoctoral	1987-1990	Bioorganic Chemistry				
Switzerland	training						

A. Positions and Honors.

Positions and Employment

1987-1990	N.I.H. Postdoctoral Fellow, Swiss Federal Inst. of Technology
1990-1992	Senior Scientist, Exploratory Biocides
1992-1999	Senior Scientist, Exploratory Agricultural Products Research
1999-2003	Chemistry Program Leader, RHeoGene (Rohm and Haas Company)
2003-present	Director of Chemistry, RheoGene, Inc.

Other Experience and Professional Memberships

1982-present	Member, American Chemical Society
2006	16th International Ecdysone Workshop, Ghent Belgium, 2006. Program
	Committee
2006	7th International Workshop on the Molecular Biology and Genetics of the Lepidoptera, Kolympari, Crete, Greece, 2006. Program Committee

Honors

1977-1981	Rufus Choate Scholar, Dartmouth College
1981	Summa Cum Laude, Dartmouth College
1981-1982	Morris Kharasch Fellow, The University of Chicago
1983-1987	N.I.H. Pharmacology Training Program, The University of Chicago
1988-1989	N.I.H. Postdoctoral Fellowship, Swiss Federal Institute of Technology
1997	Otto Haas Award for Technical Excellence, Rohm and Haas Company

B. Selected peer-reviewed publications (in chronological order).

Publications

- 1. Gross, R. H., Hormann, R. E., Saxe, J., Purification and Partial Characterization of Virus-Like Particles from Schneider Line 2 Drosophila Cells, Arch. Biochem. Biophys., 1981, 207(2), 455-9.
- 2. Eaton, P. E., Hormann, R. E., Azidocubanes. 1. Photolysis: Formation of a Homoprismyl Nitrile. J. Am. Chem. Soc., 1987, 109(4), 1268-9.
- 3. Eaton, P. E., Fisher, A. M., Hormann, R. E., Azidocubanes. 2. Acid-Induced Rearrangement: Formation of 9-Azahomocubanes, Synlett, 1990, 12, 737-8.
- 4. Giner, J.-L., Hormann, R., Arigoni, D., Multiply Labeled Substrates as Tools for the Study of an Unusual Biomethylation Reaction, Synth. Appl. Isot. Labelled Compd. 1994, 5th Proc. Int. Symp., 1995, 723-6.
- 5. Reynolds, C. H., Hormann, R. E., Theoretical Study of the Structure and Rotational Flexibility of Diacylhydrazines: Implications for the Structure of Nonsteroidal Ecdysone Agonists and Azapeptides, J. Am. Chem. Soc., 1996, 118 (39), 9395-9401.
- 6. Hormann, R. E., Nonnatural Products Nonpareil, Aldrichimica Acta, 1996, 29(2), 31-39. Dinan, L., Hormann, R. E., Fujimoto, T., An Extensive Ecdysteroid CoMFA, J. Comput.-Aided Mol. Des., 1999, 13(2), 185-207.
- 7. Ravi, M., Hopfinger, A. J., Hormann, R. E., Dinan, L., 4D-QSAR Analysis of a Set of Ecdysteroids and a Comparison to CoMFA Modeling, J. Chem. Info. Comp. Sci., 2001, 41(6), 1587-1604.
- 8. Bourne, P. C., Whiting, P., Dhadialla, T. S., Hormann, R., Girault, J.-P., Harmatha, J., Lafont, R., Dinan, L., Ecdysteroid 7,9(11)-Dien-6-ones as Potential Photoaffinity Labels for Ecdysteroid Binding Proteins, J. Insect Sci., 2002, 2(11), 11 pp., www.insectscience.org/2.11.
- 9. Dinan L., Bourne P., Whiting P., Tsitsekli A., Saatov Z., Dhadialla T.S., Hormann R.E., Lafont R., Coll J., Synthesis and Biological Activities of Turkesterone 11-alpha-acyl derivatives, Journal of Insect Science, 2003, 3(6), 11 pp., www.insectscience.org/3.6.
- 10. Tice, C. M., Hormann, R. E., Thompson, C. S., Friz, J. L., Cavanaugh, C. K., Michelotti, E. L., Garcia, J., Nicolasc, E., Albericio, F., Synthesis and SAR of Alpha-Acylaminoketone Ligands for Control of Gene Expression, Bioorganic & Medicinal Chemistry Letters, 2003, 13, 475–478.
- 11. Hormann, R., Dinan, L., Whiting, P., Superimposition evaluation of ecdysteroid agonist chemotypes through multidimensional QSAR, Journal of Computer-Aided Molecular Design, 2003, 17, 135–153.
- 12. Tice, C. M.; Hormann, R. E.; Thompson, C. S.; Friz, J. L.; Cavanaugh, C. K.; Saggers, J. A., Optimization of α-acylaminoketone ecdysone agonists for control of gene expression. Bioorganic & Medicinal Chemistry Letters, 2003, 13, 1883-1886.
- 13. Kumar, M.B., Potter, D.W., Hormann, R.E., Edwards, A., Tice, C.M., Smith, H.C., Dipietro, M.A., Polley, M., Lawless, M., Wolohan, P.R.N., Kethidi, D.R., and Palli, S.R. Highly Flexible Ligand Binding Pocket of Ecdysone Receptor, M., J. Biol. Chemistry, 2004, 279:26, 27211–27218.
- 14. L Dinan, R E Hormann, Ecdysteroid Agonists and Antagonists, in Comprehensive Molecular Insect Science, L.I. Gilbert, ed., 2005.
- 15. Palli,S., Hormann, R.E., Schlattner, U., Lezzi, M., Ecdysteroid Receptors and Their Applications in Agriculture and Medicine, in Insect Hormones, Volume 73 of Vitamins and Hormones, Gerald Litwack, Ed. -. Pp. 60-91, 2005.
- 16. Schlattner, U., Vafopoulou, X., Steel, C.G.H., Hormann, R.E., Markus Lezzi, Non-genomic ecdysone effects and the invertebrate nuclear steroid hormone receptor EcR—new role for an "old" receptor?, Molecular and Cellular Endocrinology, 2006, in press.
- 17. Garcia, J., Mata, E., Tice, C., Hormann, R. E. Ernesto, N., Albericio, F., Michelotti, E., Evaluation of Solution and Solid-Phase Approaches to the Synthesis of Libraries of α,α-Disubstituted-α-acylaminoketones, Journal of Combinatorial Chemistry, 2005, 7, 843-863.

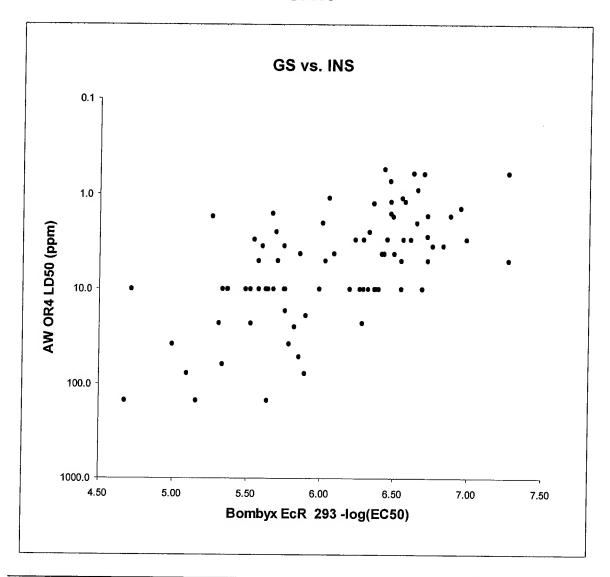
PHS 398/2590 (Rev. 05/01)	Page	Biographical Sketch Format Page

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- Hormann, R. E., Insecticidal N,N'-Disubstituted-N,N'-Diacylhydrazines, 1996, U.S. 5,482,962 A. Lidert, Z., Le, D. P., Hormann, R. E., Opie, T. R., Insecticidal N'-Substituted-N,N'-Diacylhydrazines, 1996, C.I.P. of U.S. 5, 344, 958, U.S. 5,530,028.
- 2. Hormann, R. E., Preparation of Chromancarboxylates, 1997, E.P. 773,216 A.
- 3. Hormann, R. E., Preparation of Chroman-6-carboxylates, 1997, U.S. 5,698,716 A.
- 4. Hormann, R. E., Preparation of Intermediates for Chromancarboxylates, 1998, C.I.P. of U.S. 5,698,716.
- 5. Hormann, R. E., Gilbert, D. E., Sioma, E. M., Apparatus and Method Used in Multiple, Simultaneous Synthesis of General Compounds, 2001, U.S. 6,258,323.
- 6. Carlson, G. R., Cress, D. E., Dhadialla, T. S., Hormann, R. E., Le, D. P., Ligands for Modulating the Expression of Exogenous Genes Via an Ecdysone Receptor Complex, 2001, US 6,258,603.
- 7. Dhadialla, T. S., Cress, D. E., Carlson, G. R., Hormann, R. E., Palli, S. R., Kudla, A. J., Herzig, R. P. Jr., Philip, M., Ecdysone Receptor, Retinoid X Receptor and Ultraspiracle Protein Based Dual Switch Inducible Gene Expression Modulation System, 2002, WO-0229075 A2.
- 8. Tice, C.M.; Michelotti, E.L., Hormann R.E., Ketone ligands for Modulating the Expression of Exogenous Genes via an Ecdysone Receptor Complex, 2004, US-2004-0049037.
- 9. Hormann, R.E.; Potter, D. W.; Chortyk, O.; Tice, C. M.; Carlson, G.R.; Meyer, A.; Opie, T. R., Diacylhydrazine ligands for modulating expression of transgenes via chimeric ecdysone receptor complexes, 2004, WO 2004078924.
- 10. Hormann, R.E.; Chortyk, O.; Le D.P., Oxadiazoline ligands as non-steroidal ligands for ecdysone receptors and their use in modulating genes regulated by the receptor, 2004, US 2004171651 A1.
- 11. Hormann, R.E.; Tice, C. M.; Chortyk, O.; Smith, H.; Meteyer, T. Diacylhydrazine ligands for modulating the expression of exogenous genes in mammalian or plant cells with ecdysone receptor complexes, 2004, WO 2004072254 A2.

EXHIBIT 2

SAW

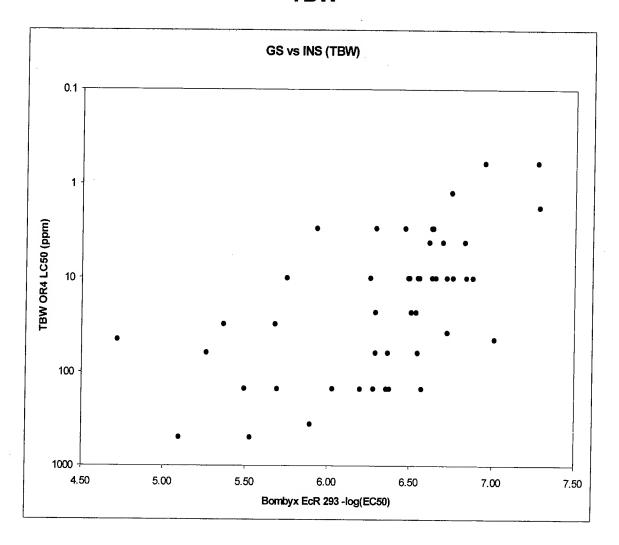


Correlations	
AW OR4	-0.534
-log(AW OR4)	0.647
AW OR4	0.792
AW OR4	-0.045
	AW OR4 -log(AW OR4) AW OR4

n = 85

EXHIBIT 3

TBW



	Correlations	
-LOG(LC50)	AW OR4	-0.522
-LOG(LC50)	-log(TBW OR4)	0.606
LC50	AW OR4	0.281
Max Cmp / Max GSE	AW OR4	-0.48

n = 48

EXHIBIT 4

I	A-RING				3,4-di-Cl	4-CH3	4-CH3	4-CH3	I	I	I	I	I	I	I	I	I	I	I	I	I	A-RING			
エ	B-RING	. ($\langle \overline{\overline{}} \rangle$		x	4-CH3	3-CH3	I	3,4-diCl	2,4-di-Cl	4-F	4-0CH3	4-CH3	3-0CH3	3-NO2	3-CF3	3-CH3	2-NO2	2-Br	2-CH3	I	B-RING		$\langle \overline{\triangleright} \rangle$	i
RG-106328	н,н	B	IZ Z	=0	RG-104515	RG-105971	RG-104782	RG-106632	RG-103406	RG-106223	RG-103735	RG-104448	RG-106633	RG-106046	RG-105635	RG-105919	RG-105827	RG-104401	RG-105624	RG-104839	RG-106328	X = H,H	(<u>B</u>	IZ	=0
RG-100397 / RG-102500	C=0				RG-101325	RG-101186	RG-101189	RG-100781	RG-101321	RG-101320	RG-100537	RG-100451	RG-100782	RG-100452	RG-100295	RG-101081	RG-100783	RG-100296	RG-101031	RG-100453	RG-100397 / RG-102500	X = (C=0)			
Se	ЕС50 (µM)	13B3			0.7	1.2	0.5	1.0	1.6	1.9	1.4	2.3	0.7	0.9	1.3	1.2	0.8	1.0	2.6	1.0	0.7	0.33	13B3 (μM)		
See above (inactive)	RMFI	33	X = 1		0.5	0.0	0.0	0.9	0.4	0.6	1.4	0.3	0.9	1.0	<u>-</u> 1	0.8	0.3	0.6	0.5	0.6	0.3	33	(μM)	Х = Н,Н	
(inactive	EC50 (μM)	Z	н,н	EC50,		1.4	1.				0.7		<u>-1</u> :3		1.2		1.4	1 <u>.</u> 3	<u>1</u> .3	<u>-</u>	1.6	0.33	Z3 (Ŧ	:
9	RMFI	Z 3		EC50 , relative maximu	2.2	<u>.</u>	0.8	1.5	3. 3.	2.3	5.0	1.0	1.3	<u>၂</u> သ	5.5	1.8	-1.	2.3	24.9	<u>ယ</u> ဟ	3.7	33	(μM)		Fol
41.5	EC50 (μM)				0.6	0.9	0.8	0.9	0.7	0.7	0.9	0.9	0.8	0.9	0.8	0.9	0.9	1.0	1.2	0.8	1.0	0.33	13B		Fold Induction
(0.03)	RMFI	13B3	X = 0	m fold induction	0.6	1166.1	573.4	1209.1	16.0	501.5	8.8	1.2	0.6	5.8	1.3	1.3	573.1	411.2	1.2	140.3	40.3	33	13B3 (μM)	X = C=0	on
31.5	EC50 (μΜ)		C=0	ion	0.8	1.4	24.2	26.9	1.8	7.1	1.3	0.9	1.2	<u>-</u> :	1.5	0.9	1.7	<u>:</u>	1.0	68.8	. 1	0.33	Z3	ő	
(0.6)	RMFI	Z3			14.8	11.4	256.3	328.4	93.1	257.5	34.5	1.4	13.9	73.7	2.0	ယ	145.3	0.9	1.6	103.6	691.3	33	Z3 (μM)		

EXHIBIT 5

CHEMISTRY

RG-109089

RG-109078

RG-109174

RG-109229

RG-109170

RG-109141

RG-109198

RG-109056

RG-109224

RG-109007

RG-109145

RG-108973

RG-108955

RG-108927

RG-108924

RG-109131

RG-108919

RG-108996

RG-108992

RG-109249

RG-109079

RG-109041

RG-108952

RG-108991

RG-109162

RG-109166

RG-109091

RG-108984

RG-109207

RG-109044

RG-108928

RG-108862

RG-108801

RG-109040

RG-108848

RG-108809

13B3 Assay

concentration in micromolar

Average of Possilt Value	Concentration in micro	Tilolai
Average of Result Value	Concentration	33 000
Corporate ID	0.330	33.000
RG-108801	0.850	0.250
RG-108804	1.200	2.500
RG-108806	0.800	0.000
RG-108808	1.800	0.000
RG-108809	0.600	0.000
RG-108811	0.000	0.000
RG-108813	0.000	0.000
RG-108814	0.000	0.000
RG-108815	0.000	0.000
RG-108817	4.000	0.000
RG-108819	0.000	0.000
RG-108825	0.000	0.000
RG-108837	0.000	0.000
RG-108839	0.000	0.000
RG-108841	0.000	0.000
RG-108842	0.000	0.000
RG-108848	3.000	0.000
RG-108853	0.000	0.000
RG-108854	0.000	0.000
RG-108855	0.000	0.000
RG-108858	0.000	0.000
RG-108860	0.000	0.000
RG-108862	1.600	1.000
RG-108864	0.000	0.000
RG-108876	0.000	0.000
RG-108880	0.500	0.000
RG-108881	1.600	0.000
RG-108882	0.000	0.000
RG-108890	0.800	0.000
RG-108895	0.000	0.000
RG-108897	0.000	0.000
RG-108902	0.000	0.000
RG-108907	0.000	0.000
RG-108908	0.700	0.000
RG-108910	0.000	0.000
RG-108919	0.000	0.000
RG-108920	0.000	0.000
RG-108921	0.000	2.500
RG-108924	0.000	0.000
RG-108927	3.500	37.000
RG-108928	0.000	1.000
RG-108932	0.000	0.000
RG-108933	0.000	0.000
RG-108937	0.000	0.000
RG-108948	0.000	0.000
RG-108952	2.333	1.600
RG-108954	0.000	0.000
RG-108955	0.000	0.000
1.13-10000	1 0.000	0.000

RG-108965 0.000 30.000 RG-108973 0.000 0.000 RG-108985 0.000 0.000 RG-108991 0.000 0.500 RG-108992 1.125 0.000 RG-108999 0.000 0.000 RG-108999 0.000 0.000 RG-109005 7.800 0.000 RG-109007 0.000 0.000 RG-109007 0.000 0.000 RG-109009 8.400 0.000 RG-109010 0.000 0.000 RG-109041 2.250 0.000 RG-109043 1.500 0.000 RG-109044 0.000 1.800 RG-109044 0.000 0.000 RG-109056 0.000 19.000 RG-109063 0.000 0.000 RG-109076 0.700 0.000 RG-109077 0.000 0.000 RG-109078 0.000 0.000 RG-109089 0.000 0.000 <			
RG-108973 0.000 0.000 RG-108984 0.000 0.000 RG-108985 0.000 0.000 RG-108991 0.000 0.500 RG-108992 1.125 0.000 RG-108999 0.000 1.400 RG-109005 7.800 0.000 RG-109006 0.000 0.000 RG-109007 0.000 0.000 RG-109009 8.400 0.000 RG-109010 0.000 0.000 RG-109040 1.800 15.000 RG-109041 2.250 0.000 RG-109043 1.500 0.000 RG-109044 0.000 0.000 RG-109056 0.000 19.000 RG-109063 0.000 0.000 RG-109074 0.000 0.000 RG-109078 0.000 0.000 RG-109079 0.000 0.000 RG-109089 0.000 0.000 RG-109091 10.125 0.00 <	RG-108956	0.000	0.000
RG-108984 0.000 0.000 RG-108985 0.000 0.000 RG-108991 0.000 0.500 RG-108992 1.125 0.000 RG-108999 0.000 1.400 RG-108999 0.000 0.000 RG-109005 7.800 0.000 RG-109006 0.000 0.000 RG-109007 0.000 0.000 RG-109010 0.000 0.000 RG-109010 0.000 0.000 RG-109032 7.875 0.000 RG-109040 1.800 15.000 RG-109041 2.250 0.000 RG-109043 1.500 0.000 RG-109044 0.000 0.000 RG-109056 0.000 19.000 RG-109063 0.000 0.000 RG-109074 0.000 0.000 RG-109078 0.000 9.500 RG-109079 0.000 0.000 RG-109089 0.000 0.000 <	RG-108965	0.000	30.000
RG-108985	RG-108973	0.000	0.000
RG-108985	RG-108984	0.000	
RG-108991			
RG-108992			
RG-108996	1		
RG-108999			
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l l	RG-109174	0.000	0.000
RG-109180 0.000 0.000		0.000	0.000
	RG-109180	0.000	0.000

RG-109182	0.000	0.000
RG-109191	3.800	11.000
RG-109195	0.000	0.000
RG-109198	0.000	0.000
RG-109200	0.000	1.500
RG-109204	0.000	0.000
RG-109206	0.000	0.000
RG-109207	0.000	0.400
RG-109224	0.000	0.000
RG-109228	0.000	0.000
RG-109229	0.000	0.000
RG-109240	0.000	0.000
RG-109249	4.500	0.000
RG-109259	1.167	0.000

Z3 Assay

concentration in micromolar

	concentration in micromolar		
Average of Result Value	Concentration		
Corporate ID	0.330	33.000	
RG-108839	0.839	0.215	
RG-108853	0.995	0.493	
RG-108855	0.946	0.206	
RG-108860	0.912	0.202	
RG-108876	0.943	0.322	
RG-108880	1.052	0.169	
RG-108882	0.774	0.191	
RG-108897	1.153	0.842	
RG-108907	1.156	0.335	
RG-108910	1.006	0.219	
RG-108919	1.105	0.046	
RG-108921	0.734	0.172	
RG-108924	1.188	0.268	
RG-108927	0.781	0.966	
RG-108928	0.730	0.304	
RG-108933	0.872	0.428	
RG-108937	0.969	0.205	
RG-108948	0.937	0.783	
RG-108952	1.124	1.092	
RG-108955	0.803	1.057	
RG-108965	0.843	0.834	
RG-108973	0.940	0.805	
RG-108984	0.989	0.092	
RG-108991	0.889	0.215	
RG-108992	1.096	0.544	
RG-108996	1.183	0.878	
RG-108999	1.127	1.089	
RG-109005	1.070	0.385	
RG-109006	1.027	0.650	
RG-109007	1.051	0.499	
RG-109010	0.966	0.509	
RG-109032	1.245	0.779	
RG-109041	1.049	0.527	
RG-109044	1.144	0.060	
RG-109056	0.856	0.899	
RG-109063	1.070	0.216	
RG-109065	0.826	0.202	
RG-109074	1.067	0.204	
RG-109078	0.924	0.872	
RG-109079	0.752	1.062	
RG-109083	1.029	0.292	
RG-109089	0.864	0.278	
RG-109091	1.101	0.244	
RG-109095	1.129	0.380	
RG-109112	1.032	0.252	
RG-109120	0.869	0.862	
RG-109124	0.936	0.221	
RG-109125	0.984	0.338	

RG-109131	1.098	0.737
RG-109141	1.163	0.239
RG-109145	0.913	0.050
RG-109162	1.145	0.116
RG-109164	1.033	0.968
RG-109165	0.966	0.627
RG-109166	1.244	0.879
RG-109170	0.863	0.741
RG-109174	0.863	0.621
RG-109179	0.997	0.374
RG-109180	0.871	0.256
RG-109182	0.928	0.563
RG-109195	1.225	0.362
RG-109198	0.954	0.940
RG-109200	1.113	1.023
RG-109204	1.298	0.318
RG-109206	0.932	0.267
RG-109207	1.070	0.742
RG-109224	0.895	0.130
RG-109228	1.130	0.172
RG-109229	0.902	0.878
RG-109240	1.092	0.361
RG-109249	1.308	1.059
RG-109259	0.972	0.187

13B3 & Z3 EC50

Corporate ID	Assay	EC50 (uM)	Rel Max FI
RG-109056	13B3	0.369	0.002
RG-108965	13B3	>50	0.048
RG-108927	13B3	0.369	0.003
RG-109056	Z 3	>50	0.002
RG-108965	Z3	>50	0.012
RG-108927	Z 3	>50	0.101